

| Robin DLF - DMX protocol - version 1.0 |   |   |           |  |                 |  |
|--|---|---|-----------|--|-----------------|--|
| Mode/channel                           |   |   | DMX Value | Function   | Type of control |  |
| 1                                      | 2 | 3 |           |  |                 |  |
| 1                                      | 1 | 1 |           | Pan  |                 |  |
|  |   |   | 0 - 255   | Pan movement by 540°   | proportional    |  |
| 2                                      | 2 | * |           | Pan Fine   |                 |  |
|  |   |   | 0 - 255   | Fine control of pan movement   | proportional    |  |
| 3                                      | 3 | 2 |           | Tilt   |                 |  |
|  |   |   | 0 - 255   | Tilt movement by 260°  | proportional    |  |
| 4                                      | 4 | * |           | Tilt fine  |                 |  |
|  |   |   | 0 - 255   | Fine control of tilt movement  | proportional    |  |
| 5                                      | 5 | 3 |           | Pan/Tilt speed , Pan/Tilt time   |                 |  |
|  |   |   | 0         | Max. speed (tracking mode)   | step            |  |
|  |   |   |           | P./T. speed-set Speed Mode in menu: Pan/Tilt Mode  |                 |  |
|  |   |   | 1 - 255   | Speed from max. to min. (vector mode)  | proportional    |  |
|  |   |   |           | P./T. time - set Time Mode in menu: Pan/Tilt Mode  |                 |  |
|  |   |   | 1 - 255   | Time from 0.1 s to 25.5 sec.   | proportional    |  |
| 6                                      | 6 | 4 |           | Power/Special functions  |                 |  |
|  |   |   | 0 -9      | Reserved   |                 |  |
|  |   |   |           | To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe” channel 27/22/20 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden). |                 |  |
|  |   |   | 10-14     | DMX input: Wired DMX *   | step            |  |
|  |   |   | 15-19     | DMX input: Wireless DMX *  | step            |  |
|  |   |   |           | * function is active only10 seconds after switching the fixture on   |                 |  |
|  |   |   | 20-29     | Reserved   |                 |  |
|  |   |   | 30-39     | RGB colour mixing mode   | step            |  |
|  |   |   | 40-49     | CMY colour mixing mode   | step            |  |
|  |   |   | 50 - 59   | Pan/Tilt speed mode  | step            |  |
|  |   |   | 60 - 69   | Pan/Tilt time mode   | step            |  |
|  |   |   | 70 - 79   | Blackout while pan/tilt moving   | step            |  |
|  |   |   | 80 - 89   | Disabled blackout while pan/tilt moving  | step            |  |
|  |   |   | 90-129    | Reserved   |                 |  |
|  |   |   |           | To activate following functions, stop in DMX value for at least 3 seconds.   |                 |  |
|  |   |   | 130 - 139 | Fixture reset (except pan/tilt)  |                 |  |
|  |   |   | 140 - 149 | Pan/Tilt reset   | step            |  |
|  |   |   | 150 - 179 | Reserved   |                 |  |
|  |   |   | 180 - 189 | Zoom//frost/ reset   | step            |  |
|  |   |   | 190 - 199 | Beam shaper reset  | step            |  |
|  |   |   | 200 - 209 | Total fixture reset  | step            |  |
|  |   |   | 210 - 239 | Reserved   |                 |  |
|  |   |   | 240       | Disable "Theatre mode"   | step            |  |
|  |   |   | 241       | "Theatre mode" -automatic control of fan noise   | step            |  |
|  |   |   | 242 - 255 | "Theatre mode" -fan noise control from min. to max.  | proportional    |  |
|  |   |   |           |  |                 |  |
| 7                                      | 7 | 5 |           | Virtual colour wheel   |                 |  |
|  |   |   | 0         | No function  | step            |  |
|  |   |   | 1-2       | White 2700 K   | step            |  |
|  |   |   | 3         | White 2700 K (Halogen lamp mode**)   | step            |  |
|  |   |   | 4-5       | White 3200 K   | step            |  |

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|--------------|-----------|-----------|-----------|--|-----------------|
| 1            | 2         | 3         |           |  |                 |
|              |           |           | 6         | White 3200 K (Halogen lamp mode**)                           | step            |
|              |           |           | 7-9       | White 4200 K   | step            |
|              |           |           | 10-12     | White 5600 K   | step            |
|              |           |           | 13-15     | White 8000 K   | step            |
|              |           |           | 16        | Blue (Blue=full, Red+Green+White=0)                          | step            |
|              |           |           | 17-55     | Red=0, Green->up, Blue =full, White=0                        | proportional    |
|              |           |           | 56        | Light Blue (Red=0, Green=full, Blue =full, White=0)          | step            |
|              |           |           | 57 - 95   | Red=0, Green=full, Blue->down, White=0                       | proportional    |
|              |           |           | 96        | Green (Red=0, Green=full, Blue =0, White=0)                  | step            |
|              |           |           | 97 – 134  | Red->up, Green=full, Blue=0, White=0                         | proportional    |
|              |           |           | 135       | Yellow (Red=full, Green=full, Blue=0, White=0)               | step            |
|              |           |           | 136 - 174 | Red=full, Green->down, Blue=0, White=0                       | proportional    |
|              |           |           | 175       | Red (Red=full, Green=0, Blue=0, White=0)                     | step            |
|              |           |           | 176 -214  | Red=full, Green=0, Blue->up, White=0                         | proportional    |
|              |           |           | 215       | Magenta (Red=full, Green=0, Blue=full, White=0)              | step            |
|              |           |           | 216 - 246 | Red -> down, Green=0, Blue=full, White=0                     | proportional    |
|              |           |           | 247       | Blue (Red=0, Green=0, Blue=full, White=0)                    | step            |
|              |           |           | 248-251   | Rainbow effect (with fade time)                              | proportional    |
|              |           |           | 252-255   | Rainbow effect   | proportional    |
| <b>8</b>     | <b>8</b>  | <b>6</b>  |           | <b>Red/Cyan (8 bit)***</b>                                   |                 |
|              |           |           | 0 - 255   | Red or Cyan colour saturation control - coarse (0-100%)      | proportional    |
| <b>9</b>     | <b>*</b>  | <b>*</b>  |           | <b>Red/Cyan (16bit)***</b>                                   |                 |
|              |           |           | 0 - 255   | Red or Cyan colour saturation control - fine                 | proportional    |
| <b>10</b>    | <b>9</b>  | <b>7</b>  |           | <b>Green/Magenta (8 bit)***</b>                              |                 |
|              |           |           | 0 - 255   | Green or Magenta colour saturation control - coarse (0-100%) | proportional    |
| <b>11</b>    | <b>*</b>  | <b>*</b>  |           | <b>Green/Magenta (16bit)***</b>                              |                 |
|              |           |           | 0 - 255   | Green or Magenta colour saturation control - fine            | proportional    |
| <b>12</b>    | <b>10</b> | <b>8</b>  |           | <b>Blue/Yellow (8 bit)***</b>                                |                 |
|              |           |           | 0 - 255   | Blue or Yellow colour saturation control - coarse (0-100%)   | proportional    |
| <b>13</b>    | <b>*</b>  | <b>*</b>  |           | <b>Blue/ Yellow (16bit)***</b>                               |                 |
|              |           |           | 0 - 255   | Blue or Yellow colour saturation control - fine              | proportional    |
| <b>14</b>    | <b>11</b> | <b>9</b>  |           | <b>White (8 bit)</b>   |                 |
|              |           |           |           | If RGBW mode is selected:                                    |                 |
|              |           |           | 0-255     | White colour saturation control - coarse (0-100%)            | proportional    |
|              |           |           |           | If CMY mode is selected:                                     |                 |
|              |           |           | 0 - 255   | No function  |                 |
| <b>15</b>    | <b>*</b>  | <b>*</b>  |           | <b>White (16 bit)</b>  |                 |
|              |           |           | 0 - 255   | White colour saturation control - fine (RGBW mode only)      | proportional    |
| <b>16</b>    | <b>12</b> | <b>10</b> |           | <b>CTC</b>   |                 |
|              |           |           | 0         | No function  | step            |
|              |           |           | 1-255     | Colour temperature correction from 19000K to 2700K           | proportional    |
| <b>17</b>    | <b>13</b> | <b>11</b> |           | <b>Wide zoom</b>   |                 |
|              |           |           | 0         | Wide zoom Off  | step            |
|              |           |           | 1-100     | Wide zoom On   | step            |
|              |           |           | 101-255   | Reserved   |                 |
| <b>18</b>    | <b>14</b> | <b>12</b> |           | <b>Zoom</b>  |                 |
|              |           |           | 0 - 100   | Zoom from min. to max. beam angle                            | proportional    |
| <b>19</b>    | <b>*</b>  | <b>*</b>  |           | <b>Zoom - fine</b>   |                 |
|              |           |           | 0-255     | Fine zooming   | proportional    |
| <b>20</b>    | <b>15</b> | <b>13</b> |           | <b>Beam shaper rotation</b>                                  |                 |

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| 1            | 2         | 3         |           |                                |                 |
|              |           |           | 0- 255    | Rotation 0°--> 180°            | proportional    |
| <b>21</b>    | <b>16</b> | <b>14</b> |           | <b>Beam shaper 1- movement</b> |                 |
|              |           |           | 0- 255    | Movement Out-->In              | proportional    |
| <b>22</b>    | <b>17</b> | <b>15</b> |           | <b>Beam shaper 2- movement</b> |                 |
|              |           |           | 0- 255    | Movement Out-->In              | proportional    |
| <b>23</b>    | <b>18</b> | <b>16</b> |           | <b>Beam shaper 3- movement</b> |                 |
|              |           |           | 0- 255    | Movement Out-->In              | proportional    |
| <b>24</b>    | <b>19</b> | <b>17</b> |           | <b>Beam shaper 4- movement</b> |                 |
|              |           |           | 0- 255    | Movement Out-->In              | proportional    |
| <b>25</b>    | <b>20</b> | <b>18</b> |           | <b>Beam shaper macros</b>      |                 |
|              |           |           | 0-3       | No function                    |                 |
|              |           |           | 4-7       | Macro 1                        | step            |
|              |           |           | 8-11      | Macro 2                        | step            |
|              |           |           | 12-15     | Macro 3                        | step            |
|              |           |           | 16-19     | Macro 4                        | step            |
|              |           |           | 20-23     | Macro 5                        | step            |
|              |           |           | 24-27     | Macro 6                        | step            |
|              |           |           | 28-31     | Macro 7                        | step            |
|              |           |           | 32-35     | Macro 8                        | step            |
|              |           |           | 36-39     | Macro 9                        | step            |
|              |           |           | 40-43     | Macro 10                       | step            |
|              |           |           | 44-47     | Macro 11                       | step            |
|              |           |           | 48-51     | Macro 12                       | step            |
|              |           |           | 52-55     | Macro 13                       | step            |
|              |           |           | 56-59     | Macro 14                       | step            |
|              |           |           | 60-63     | Macro 15                       | step            |
|              |           |           | 64-67     | Macro 16                       | step            |
|              |           |           | 68-71     | Macro 17                       | step            |
|              |           |           | 72-75     | Macro 18                       | step            |
|              |           |           | 76-79     | Macro 19                       | step            |
|              |           |           | 80-83     | Macro 20                       | step            |
|              |           |           | 84-87     | Macro 21                       | step            |
|              |           |           | 88-91     | Macro 22                       | step            |
|              |           |           | 92-95     | Macro 23                       | step            |
|              |           |           | 96-99     | Macro 24                       | step            |
|              |           |           | 100-103   | Macro 25                       | step            |
|              |           |           | 104-107   | Macro 26                       | step            |
|              |           |           | 108-111   | Macro 27                       | step            |
|              |           |           | 112-115   | Macro 28                       | step            |
|              |           |           | 116-119   | Macro 29                       | step            |
|              |           |           | 120-123   | Macro 30                       | step            |
|              |           |           | 124-127   | Macro 31                       | step            |
|              |           |           | 128-131   | Macro 32                       | step            |
|              |           |           | 132-135   | Macro 33                       | step            |
|              |           |           | 136-139   | Macro 34                       | step            |
|              |           |           | 140-143   | Macro 35                       | step            |
|              |           |           | 144-147   | Macro 36                       | step            |
|              |           |           | 148-151   | Macro 37                       | step            |
|              |           |           | 152-155   | Macro 38                       | step            |
|              |           |           | 156-159   | Macro 39                       | step            |

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| 1  | 2         | 3         |           |  |                 |
|  |           |           | 160-163   | Macro 40                                     | step            |
|  |           |           | 164-167   | Macro 41                                     | step            |
|  |           |           | 168-255   | Reserved                                     |                 |
| <b>26</b>  | <b>21</b> | <b>19</b> |           | <b>Beam shaper macro speed</b>               |                 |
|  |           |           | 0- 255    | Speed from slow to fast.                     | proportional    |
| <b>27</b>  | <b>22</b> | <b>20</b> |           | <b>Shutter/ strobe</b>                       |                 |
|  |           |           | 0 - 31    | Shutter closed                               | step            |
|  |           |           | 32 - 63   | Shutter open                                 | step            |
|  |           |           | 64 - 95   | Strobe-effect from slow to fast              | proportional    |
|  |           |           | 96 - 127  | Shutter open                                 | step            |
|  |           |           | 128 - 143 | Opening pulse in sequences from slow to fast | proportional    |
|  |           |           | 144 - 159 | Closing pulse in sequences from fast to slow | proportional    |
|  |           |           | 160 - 191 | Shutter open                                 | step            |
|  |           |           | 192 - 223 | Random strobe-effect from slow to fast       | proportional    |
|  |           |           | 224 - 255 | Shutter open                                 | step            |
| <b>28</b>  | <b>23</b> | <b>21</b> |           | <b>Dimmer intensity</b>                      |                 |
|  |           |           | 0 - 255   | Dimmer intensity from 0% to 100%             | proportional    |
| <b>29</b>  | <b>*</b>  | <b>*</b>  |           | <b>Dimmer intensity - fine</b>               |                 |
|  |           |           | 0 - 255   | Fine dimming                                 | proportional    |
|  |           |           |           |  |                 |
| ** In the Halogen lamp mode the Dimmer channel imitates behaviour of the halogen lamp during dimming |           |           |           |  |                 |
| *** Select RGB or CMY mixing mode on channel "Power/Special functions"                               |           |           |           |  |                 |